

# WEST Search History





DATE: Monday, April 26, 2004

<b>Hide?</b>	<b>Set Name</b>	<b>Query</b>	<b>Hit Count</b>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L23	l20 and L22	1
<input type="checkbox"/>	L22	history same L21	920
<input type="checkbox"/>	L21	(Universal adj resource adj locator) or URL	30473
<input type="checkbox"/>	L20	(web adj browser) same iframe	12
<input type="checkbox"/>	L19	javascript adj remote adj scripting	0
<input type="checkbox"/>	L18	L13	41
<input type="checkbox"/>	L17	L16	0
	<i>DB=USPT; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L16	L13 and L15	0
<input type="checkbox"/>	L15	(719/330).ccls.	186
<input type="checkbox"/>	L14	HTTP same L13	6
<input type="checkbox"/>	L13	iframe	41
<input type="checkbox"/>	L12	L1 or L2 or L3 or L4 or L5 or L6 or L7 or L8 or L9 or L10 or L11	1709
<input type="checkbox"/>	L11	(719/320).ccls.	75
<input type="checkbox"/>	L10	(719/319).ccls.	53
<input type="checkbox"/>	L9	(719/318).ccls.	204
<input type="checkbox"/>	L8	(719/317).ccls.	105
<input type="checkbox"/>	L7	(719/316).ccls.	230
<input type="checkbox"/>	L6	(719/315).ccls.	508
<input type="checkbox"/>	L5	(719/314).ccls.	82
<input type="checkbox"/>	L4	(719/313).ccls.	229
<input type="checkbox"/>	L3	(719/312).ccls.	86
<input type="checkbox"/>	L2	(719/311).ccls.	53
<input type="checkbox"/>	L1	(719/310).ccls.	340

END OF SEARCH HISTORY

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END OF SEARCH HISTORY

First Hit**End of Result Set**

Generate Collection

Print

L23: Entry 1 of 1

File: PGPB

Apr 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030067480

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030067480 A1

TITLE: System and method of data transmission for computer networks utilizing HTTP

PUBLICATION-DATE: April 10, 2003

## INVENTOR-INFORMATION:

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APPL-NO: 09/ 916251 [PALM]

DATE FILED: July 30, 2001

## RELATED-US-APPL-DATA:

Application is a non-provisional-of-provisional application 60/231842, filed September 11, 2000,

INT-CL: [07] G06 F 13/00

US-CL-PUBLISHED: 345/733

US-CL-CURRENT: 345/733

REPRESENTATIVE-FIGURES: 1

## ABSTRACT:

The present invention permits textual data to be exchanged between a Web page displayed in a standard Microsoft Web browser window and a server, utilizing a nonpersistent HTTP connection. Traditionally, each time textual data is received to the displayed Web page a record is added to the history list. This is problematic as it clutters the history list, compromises the functionality of the browser "Back" and "Forward" buttons, and results in undesirable server operations to be executed. The present invention utilizes several methods for loading textual data to a displayed Web page, without adding a URL to the history list. In one aspect of the invention, a <xml> element is used to transmit a HTTP request for new data and receive the HTTP response. The present invention can be used to build a lightweight Web page that offers real-time data and interactivity.

## CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims the benefit of U.S. Provisional Application No. 60/231,842 filed Sept. 11, 2000.

First Hit

End of Result Set



Generate Collection

Print

L23: Entry 1 of 1

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DOCUMENT-IDENTIFIER: US 20030067480 A1

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Abstract Paragraph:

The present invention permits textual data to be exchanged between a Web page displayed in a standard Microsoft Web browser window and a server, utilizing a nonpersistent HTTP connection. Traditionally, each time textual data is received to the displayed Web page a record is added to the history list. This is problematic as it clutters the history list, compromises the functionality of the browser "Back" and "Forward" buttons, and results in undesirable server operations to be executed. The present invention utilizes several methods for loading textual data to a displayed Web page, without adding a URL to the history list. In one aspect of the invention, a `<xml>` element is used to transmit a HTTP request for new data and receive the HTTP response. The present invention can be used to build a lightweight Web page that offers real-time data and interactivity.

Summary of Invention Paragraph:

[0015] Specifically, each time new information is loaded into an `<iframe>` element, a record or URL (Universal Resource Locator) is added to the Microsoft Web browser's history list. That is, the browser is now adding every action performed from the Web page to the history list, rather than just each unique Web page. Thus, since each unique Web page may make several data transmissions, several history records are now being associated with each unique Web page. This is problematic in the context of Web-based applications for the following reasons:

Summary of Invention Paragraph:

[0021] The present invention permits the downloading of new information to a Web page within a Microsoft Web browser through a non-persistent HTTP connection, and without utilizing Web browser plug-in, Java Applet, or ActiveX technology. Furthermore, the present invention accomplishes the downloading action to the Web page without adding a record or URL to the Web browser's history list.

Detail Description Paragraph:

[0034] Because the data receiver is lacking today, it is the key stumbling block in this outlined system. Furthermore, in order for this system to be effective, the data receiver must be able to download the data transport file without adding a URL to the Web browser's history list. The data receiver can potentially be implemented by any HTML element that has a "SRC" property and can load a text file (e.g. the data transport file). Examples of these supported by the Microsoft Web browser are the HTML `<script>` element, the HTML `<xml>` element, the HTML `<iframe>` element, and the HTML `<frame>` element. Unfortunately, the subset of such HTML elements that are traditionally used to load Web pages, such as the HTML `<iframe>` element and the HTML `<frame>` element, cannot be utilized as-is. This is due to the fact that for each time a text file is downloaded to this subset of HTML elements, the URL of the text file is recorded in the Web browser's history list. Thus, further modification is necessary before we can effectively use this subset of HTML elements for the data receiver. `<script>` Implementation

Detail Description Paragraph:

[0057] As mentioned before, the HTML elements that are traditionally used to load Web pages require further modification before we can effectively use them as the data receiver. Below we outline a method for utilizing a HTML `<iframe>` element without creating a record in the Web browser's history list. Below you will find the source code for the Web page, iframe\_client.htm, and the data transport file, iframe\_datatransport.asp.

Detail Description Paragraph:

[0062] A trigger function is defined in iframe\_client.htm, which prepares the data receiver and requests the data transport file. We dynamically generate a hidden HTML <iframe> element, the data receiver, without any value assigned to its "src" attribute. Because the <iframe> "src" has no value (i.e. URL) and will never be assigned a URL, the Web browser will not add a record to its history list. However, we must somehow assign the data transport file to the data receiver. This is accomplished by utilizing the HTML <form> element's "target" attribute to associate the data transport file with the data receiver. Now we submit the HTML <form> created earlier. Once this occurs, a HTTP request is sent to the Web server for the data transport file. Keep in mind that this trigger function would be called when a given event occurs, such as a button click or a timer.

**CLAIMS:**

1. A method for bringing new data to a Web page displayed in the application window at a client device, the method comprising: displaying, in the application window of a client device, a Web page, wherein said Web page no longer has any active HTTP connections; transmitting, to a server, an HTTP request; and receiving, from said server, an HTTP response associated with said HTTP request, wherein the transmitting and receiving actions do not utilize Web browser plug-in, Java Applet, or ActiveX technology, and do not add a Universal Resource Locator (URL) to said application's history list.